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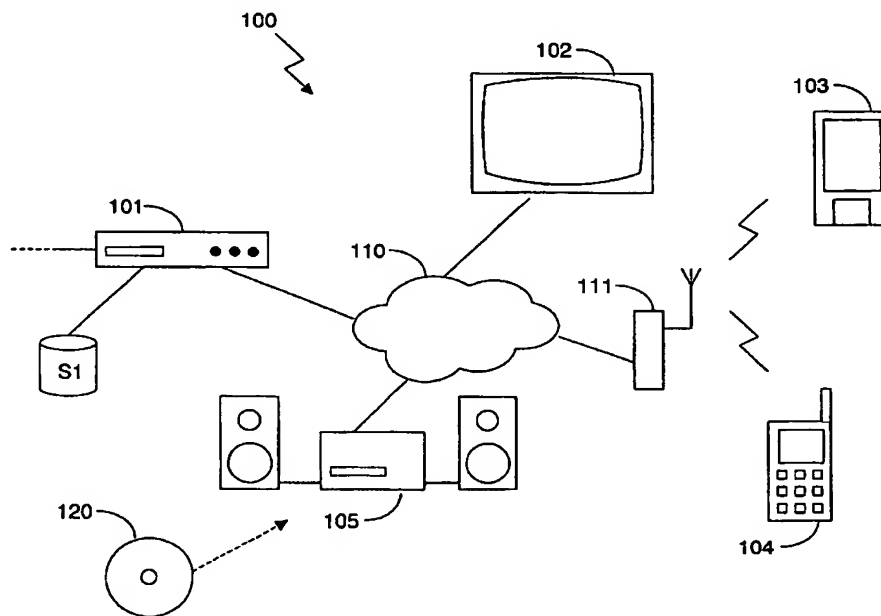
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(54) Title: METHOD AND SYSTEM FOR GENERATING A COMMON SECRET KEY



(57) Abstract: A method for generating a common secret data item between a first user facility and a second user facility does so through by each user facility executing mutually symmetric operations on respective complementary data items that are based on respectively unique quantities and that are at least in part secret. An outcome of the operations is used in both said user facilities as said common secret data item. In particular, the method is based on defining the complementary data belonging to a GAP Diffie-Hellmann Problem that is defined in an Abelian Variety. More in particular, the Abelian Variety has a dimension one through being an elliptic curve.